

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P300398

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-AFL-7030-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38114.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

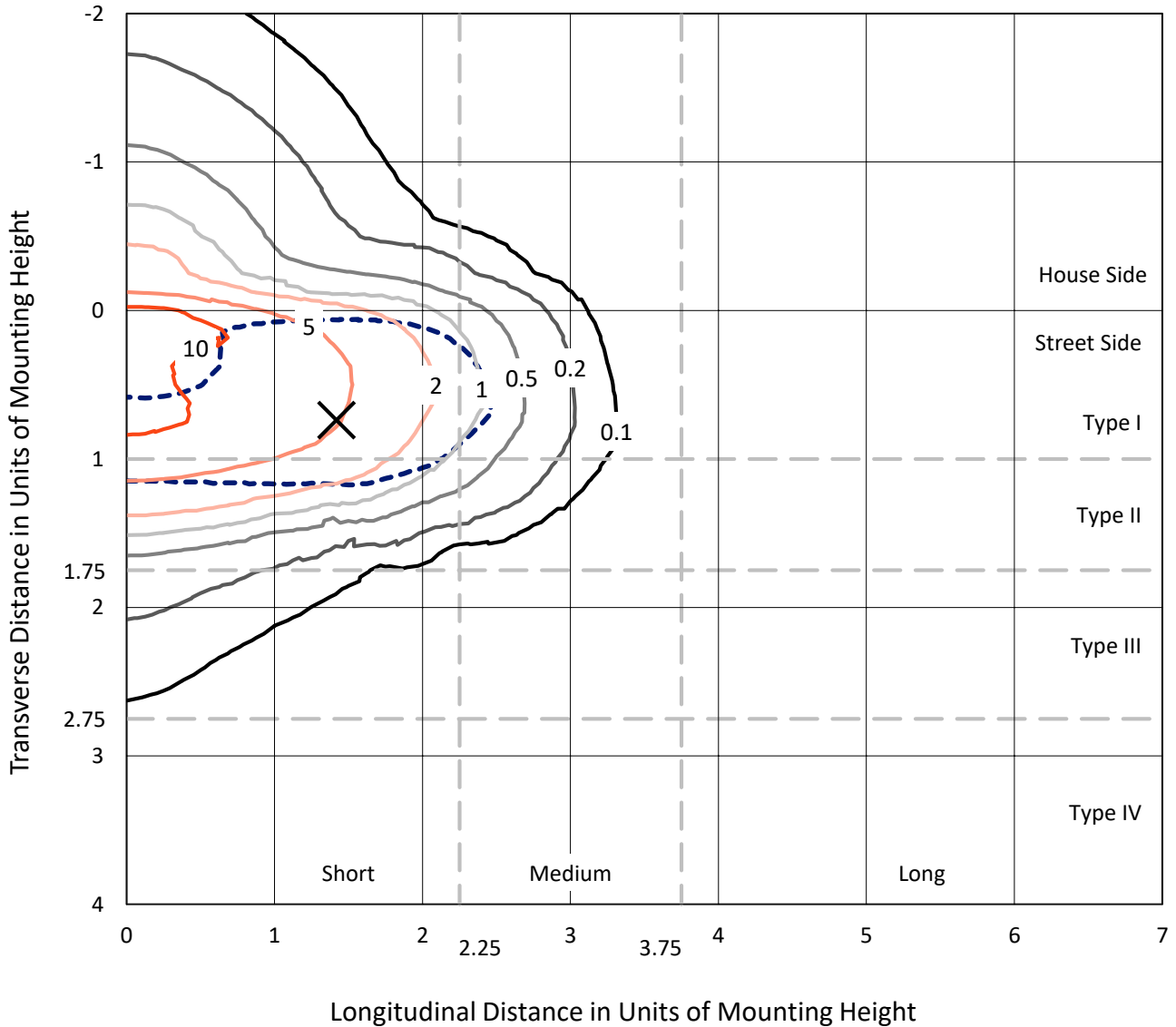
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

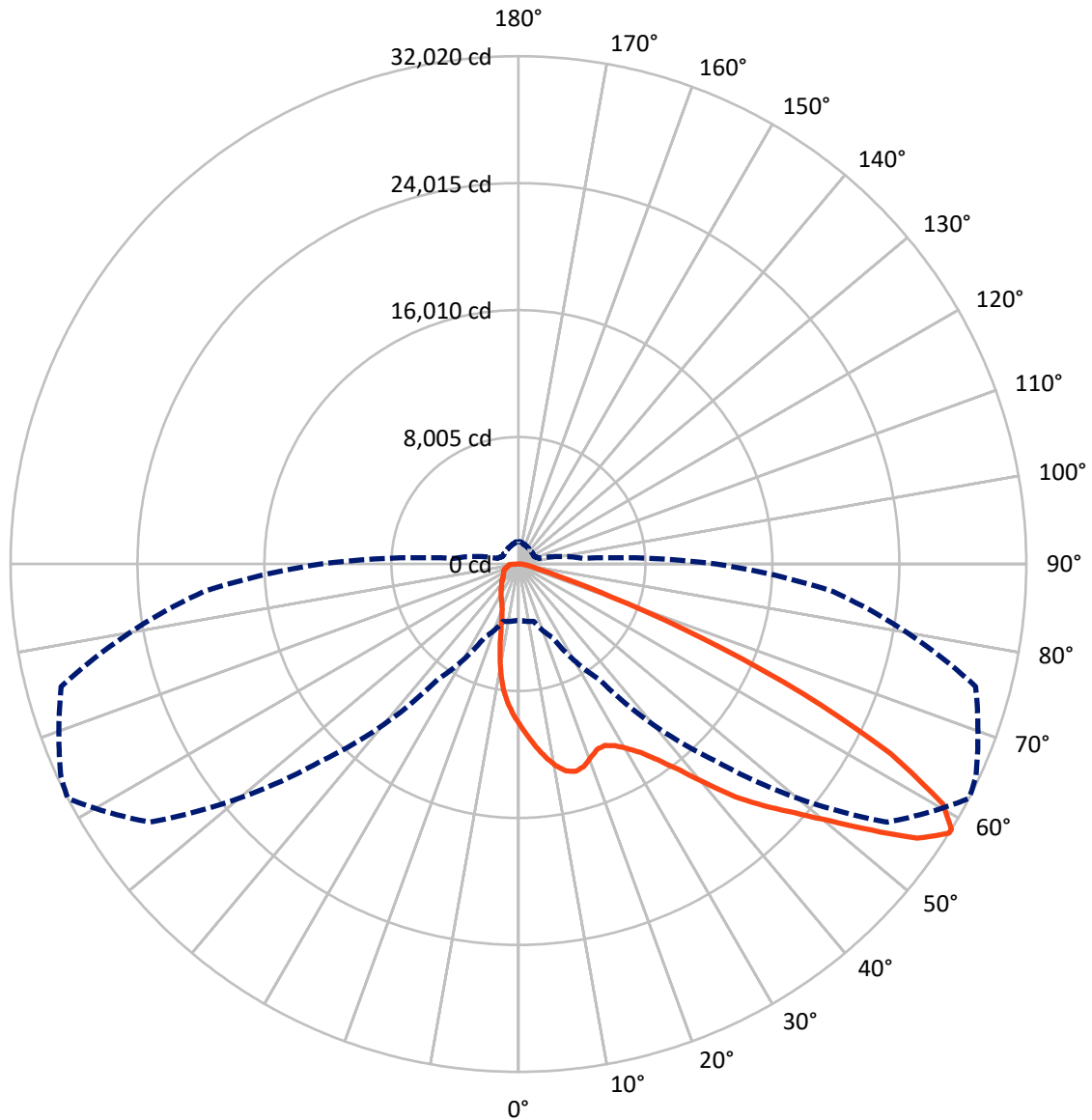
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5812.6	0.0	5812.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32301.7	0.0	32301.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	38114.2	0.0	38114.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.5	2.4
10°-20°	2314.5	6.1
20°-30°	3741.5	9.8
30°-40°	5939.6	15.6
40°-50°	8690.9	22.8
50°-60°	9089.9	23.8
60°-70°	5370.3	14.1
70°-80°	1512.8	4.0
80°-90°	549.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38114.2	100.0
0°-180°	38114.2	100.0



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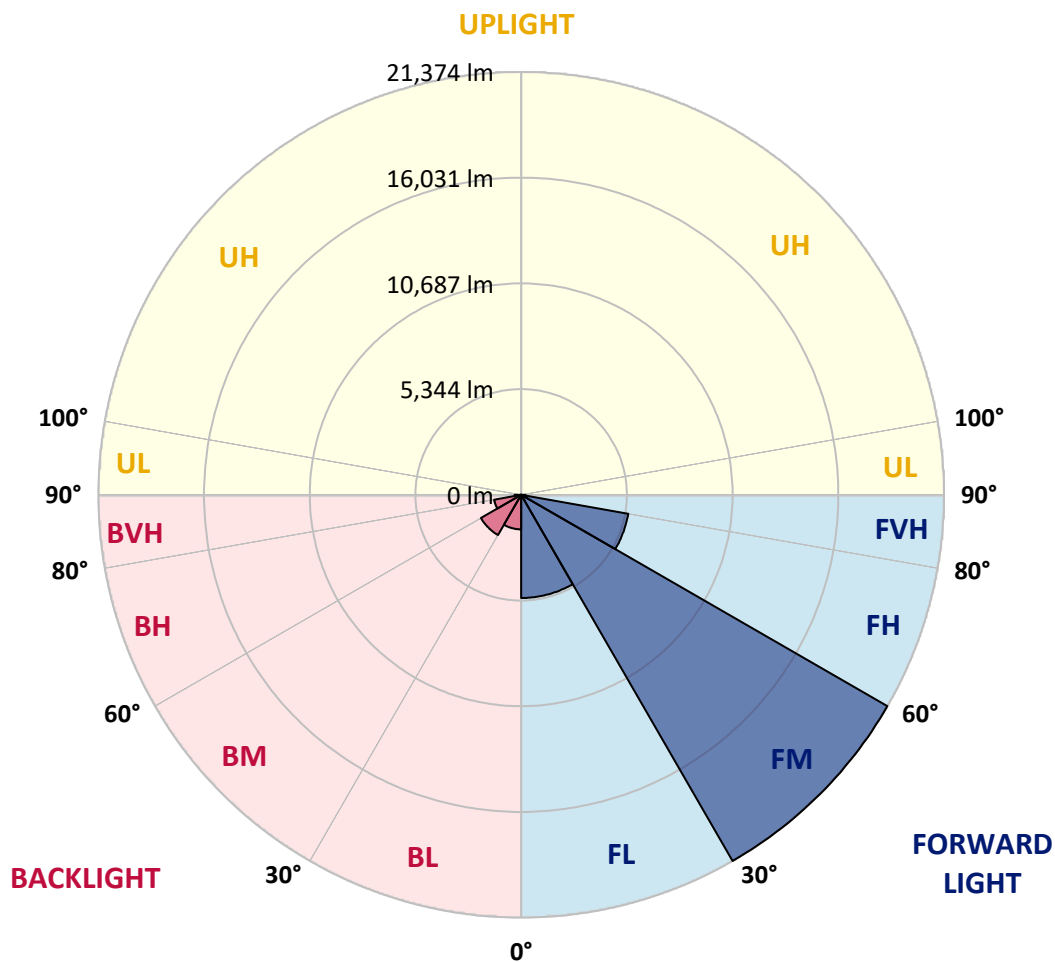
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5214.5	13.7			
FM	(30°-60°)	21374.2	56.1			
FH	(60°-80°)	5496.2	14.4			G3/7500
FVH	(80°-90°)	216.7	0.6			G2/225
BL	(0°-30°)	1747.0	4.6	B3/2500		
BM	(30°-60°)	2346.1	6.2	B2/2500		
BH	(60°-80°)	1386.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	332.6	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3
2.5°	11569.1	11475.7	11416.5	11364.5	11296.3	11150.9	10955.2	10831.4	10768.6	10555.0	10302.0
5°	12703.3	12620.8	12559.8	12489.8	12367.7	12139.8	11823.9	11572.6	11448.8	11021.7	10515.5
7.5°	12437.7	12471.8	12577.7	12762.6	12920.5	12890.0	12608.2	12288.8	12125.4	11531.4	10763.2
10°	10836.8	10896.0	11079.1	11511.6	12211.6	12929.5	13148.5	12927.7	12762.6	12035.7	11018.1
12.5°	10515.5	10513.7	10528.1	10643.0	11059.3	12069.8	13166.4	13388.9	13290.2	12516.7	11278.3
15°	10646.5	10650.1	10639.4	10687.8	10817.1	11217.3	12617.2	13566.6	13636.6	13001.3	11547.5
17.5°	10991.1	10982.2	10940.9	10940.9	10987.6	11143.7	11971.1	13401.5	13724.6	13430.2	11784.4
20°	11569.1	11527.8	11418.3	11317.8	11267.5	11351.9	11705.5	13021.0	13572.0	13805.3	11980.1
22.5°	12269.0	12236.7	12059.0	11843.7	11669.6	11667.8	11841.9	12689.0	13308.2	14158.9	12145.2
25°	13173.6	13121.5	12857.7	12513.1	12208.0	12091.3	12139.8	12672.8	13164.6	14543.0	12292.3
27.5°	14236.1	14141.0	13828.7	13331.5	12882.8	12647.7	12577.7	12965.4	13295.6	15018.6	12497.0
30°	15524.7	15415.2	15015.0	14367.1	13733.5	13347.7	13198.7	13484.1	13730.0	15598.3	12825.4
32.5°	16991.0	16833.1	16370.1	15655.7	14823.0	14234.3	13992.0	14169.7	14365.3	16296.5	13236.4
35°	19017.3	18828.9	18159.4	17174.1	16233.7	15424.2	15036.5	15165.8	15356.0	17337.4	13830.5
37.5°	20399.3	20314.9	19869.8	18943.7	17920.7	16989.2	16389.8	16465.2	16572.9	18638.6	14591.4
40°	20386.7	20420.8	20429.8	20438.8	19742.4	18850.4	18206.1	18127.1	18105.6	20067.3	15456.5
42.5°	19365.5	19505.5	19957.8	20874.9	21298.5	20889.3	20298.8	20070.9	19957.8	21750.8	16373.6
45°	17802.3	17877.7	18724.8	20516.0	22095.4	22908.4	22461.5	21743.6	21539.0	23297.8	17134.6
47.5°	16996.4	17079.0	17612.0	19564.7	22086.4	24539.8	24798.3	23430.7	23064.5	24643.9	17791.5
50°	15077.8	15250.1	15921.4	17910.0	21280.5	25290.0	27240.9	25440.8	24683.4	25954.1	18450.2
52.5°	11554.7	11820.3	12572.3	15189.1	19236.3	24918.5	29195.4	27878.1	26808.4	27310.9	19015.5
55°	7288.5	7486.0	8117.7	10727.3	15388.3	22985.6	29936.7	30514.6	29563.4	28596.0	19505.5
57.5°	3962.8	4050.8	4287.7	5922.7	10009.4	18712.2	28856.2	32015.0	31620.2	29687.2	19875.2
58°	3546.5	3605.7	3752.9	5133.0	8876.9	17543.8	28377.0	32020.4	31823.0	29846.9	19903.9
60°	2631.1	2600.6	2469.6	2929.1	4941.0	12120.1	25480.3	30738.9	31318.7	30042.6	19764.0
62.5°	2311.7	2238.1	1970.7	1940.1	2403.2	5583.5	19496.5	26331.0	27700.4	28926.2	18913.2
65°	2171.7	2092.7	1748.1	1636.8	1733.7	2361.9	11484.7	19747.8	21465.4	25541.3	16738.0
67.5°	2067.6	1965.3	1606.3	1453.8	1460.9	1561.4	4603.6	12437.7	14370.7	19392.4	13019.2
70°	1967.1	1855.8	1486.1	1310.2	1268.9	1234.8	1830.7	6226.0	7979.5	12249.3	8300.8
72.5°	1859.4	1749.9	1380.2	1197.1	1116.3	1003.3	1195.3	2546.8	3557.2	5795.3	3765.4
75°	1703.2	1604.5	1274.3	1096.6	981.7	831.0	902.8	1329.9	1595.5	2308.1	1814.5
77.5°	1511.2	1430.4	1155.8	1014.0	870.5	674.8	694.6	922.5	1023.0	1320.9	1078.7
80°	1085.8	1114.5	1028.4	911.7	775.3	547.4	533.0	673.0	726.9	848.9	701.8
82.5°	762.8	778.9	850.7	744.8	640.7	430.7	393.1	473.8	506.1	558.2	378.7
85°	525.9	507.9	583.3	518.7	463.0	287.2	269.2	321.3	341.0	346.4	195.6
87.5°	315.9	315.9	337.4	278.2	249.5	149.0	145.4	183.1	195.6	186.7	107.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3	10124.3
2.5°	10151.2	10023.8	9752.8	9535.6	9261.0	8975.6	8815.9	8645.4	8528.7	8444.4	8579.0
5°	10228.4	9968.1	9408.2	8876.9	8290.0	7679.8	7216.8	6786.0	6486.3	6299.6	6475.5
7.5°	10350.4	9950.2	9058.2	8150.0	7096.5	6080.7	5172.5	4603.6	4271.5	4108.2	4210.5
10°	10490.4	9921.5	8647.2	7164.7	5657.1	4377.4	3699.0	3469.3	3393.9	3363.4	3377.7
12.5°	10607.1	9860.4	8142.9	5973.0	4248.2	3456.7	3261.1	3255.7	3271.9	3275.4	3280.8
15°	10689.6	9770.7	7394.4	4731.0	3397.5	3149.8	3139.0	3171.4	3201.9	3214.4	3221.6
17.5°	10745.3	9585.8	6549.1	3740.3	3043.9	3000.8	3026.0	3067.3	3099.6	3108.5	3115.7
20°	10739.9	9314.8	5542.2	3119.3	2851.9	2851.9	2895.0	2927.3	2929.1	2918.3	2923.7
22.5°	10684.2	8943.3	4565.9	2789.1	2681.4	2711.9	2755.0	2724.5	2598.8	2516.3	2521.6
25°	10590.9	8500.0	3729.5	2579.1	2523.4	2577.3	2564.7	2335.0	2155.5	2074.7	2074.7
27.5°	10508.4	7975.9	3087.0	2396.0	2365.5	2431.9	2209.4	2001.2	1925.8	1888.1	1875.5
30°	10449.1	7410.6	2658.0	2220.1	2216.5	2168.1	1916.8	1859.4	1846.8	1816.3	1805.5
32.5°	10463.5	6838.1	2383.4	2065.8	2078.3	1855.8	1776.8	1789.4	1778.6	1746.3	1731.9
35°	10581.9	6294.2	2204.0	1925.8	1888.1	1676.3	1694.3	1717.6	1714.0	1669.1	1654.8
37.5°	10793.7	5779.1	2085.5	1809.1	1647.6	1586.6	1615.3	1651.2	1642.2	1611.7	1600.9
40°	11016.3	5294.6	1988.6	1717.6	1505.8	1525.6	1550.7	1570.4	1579.4	1588.4	1581.2
42.5°	11233.4	4788.4	1870.1	1624.3	1446.6	1468.1	1478.9	1498.6	1547.1	1581.2	1579.4
45°	11362.7	4312.8	1748.1	1491.5	1399.9	1412.5	1405.3	1444.8	1504.0	1559.7	1561.4
47.5°	11506.2	3943.1	1651.2	1369.4	1355.0	1364.0	1342.5	1382.0	1435.8	1504.0	1511.2
50°	11680.3	3722.3	1574.0	1272.5	1294.0	1294.0	1288.6	1324.5	1399.9	1478.9	1493.2
52.5°	11877.8	3679.3	1509.4	1202.5	1233.0	1231.2	1236.6	1290.4	1373.0	1450.2	1462.7
55°	12118.3	3795.9	1439.4	1150.4	1173.8	1181.0	1198.9	1259.9	1329.9	1417.9	1423.2
57.5°	12398.2	4032.8	1383.8	1109.2	1119.9	1143.3	1172.0	1227.6	1303.0	1399.9	1405.3
58°	12444.9	4083.1	1374.8	1105.6	1109.2	1136.1	1168.4	1222.2	1297.6	1403.5	1408.9
60°	12446.7	4250.0	1355.0	1089.4	1067.9	1112.8	1148.6	1202.5	1288.6	1416.1	1428.6
62.5°	12005.2	4248.2	1340.7	1066.1	1024.8	1080.4	1121.7	1184.5	1279.7	1446.6	1471.7
65°	10571.2	3860.5	1272.5	1030.2	990.7	1051.7	1098.4	1172.0	1304.8	1579.4	1595.5
67.5°	8268.5	3164.2	1145.1	979.9	945.8	1023.0	1084.0	1170.2	1331.7	1609.9	1620.7
70°	5466.9	2367.3	1005.1	922.5	899.2	988.9	1091.2	1231.2	1301.2	1545.3	1516.6
72.5°	2837.5	1662.0	892.0	850.7	845.3	958.4	1195.3	1224.0	1270.7	1453.8	1417.9
75°	1489.7	1154.0	793.3	771.7	780.7	951.2	1410.7	1191.7	1231.2	1390.9	1459.1
77.5°	911.7	931.5	708.9	700.0	717.9	929.7	1408.9	1150.4	1173.8	1279.7	1355.0
80°	610.2	755.6	644.3	646.1	658.7	850.7	1265.3	1085.8	1103.8	1209.7	1286.8
82.5°	385.9	446.9	585.1	615.6	599.5	701.8	1075.1	988.9	1014.0	1383.8	1462.7
85°	195.6	280.0	507.9	592.3	540.2	491.8	872.3	866.9	879.4	997.9	1042.8
87.5°	89.7	154.3	396.6	516.9	407.4	306.9	633.6	642.5	692.8	708.9	708.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)